



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040268	ACI001-VC	1	1	Net 30	MT-HRS-P-0.750	Hot Rolled Steel Plate 0.750" (44W) : MATERIAL: HOT ROLLED STEEL SHEET ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018			16	7/11/2018	16		S089592	Stock	7/5/2018	\$ 22.32 / ft	1		\$357.16	Acier Ouellette Inc.
		2	2		M6061T6B0.500X10.000	6061-T6 Bar .500 x 10.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			6		6		S089593	Stock	7/5/2018	\$ 18.46 / ft	1		\$110.76	Acier Ouellette Inc.
		3	3		M6061T6B0.625X02.000	6061T6 Bar 0.625 X 2.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			12		12		S089594	Stock	7/5/2018	\$ 6.11 / ft	1		\$73.37	Acier Ouellette Inc.
		4	4		M6061T6B0.500X00.750	6061T6 Bar 0.500 X 0.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			20		20		S089595	Stock	7/5/2018	\$ 1.57 / ft	1		\$31.39	Acier Ouellette Inc.
		6	6		M6061T6B0.375X5.000	6061T6 Bar 0.375 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					24		S089596	Stock	7/5/2018	\$ 7.61 / ft	1		\$182.66	Acier Ouellette Inc.
										Total:	74								\$574.79	



# ACIER OUELLETTE INC.

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

# DELIVERY - CLIENT

CO00009643C

## Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

## Instruction

F-M

## Delivery Route

5

## Customer N 

CL10001056

## Date

2018/06/21

## Delivery date

2018/07/04

## Your order N 

040268

## Processed by

Eric Kaehlert

## Salesman

OUELLETTE VALLEYFIELD

## Carrier

Net 30 Days

## Credit Terme

Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 PLATE 44W 3/4 RANDOM P44-34-V 4108 1 X 4' X 4' ** CERTIFICATE ** LINE: 1 Heat: 725249	489.60	16.00	PI2_\$CLB							
2 FLAT ALU 1/2 X 10 6061-T6 * FAL-1210 2464 1 X 6' ** CERTIFICATE ** LINE: 2 Heat: 200191132	35.28	6.00	PI_\$CLB		1x6"		10'4"	v		1x4'4"
3 FLAT ALU 5/8 X 2 6061-T6 RANDOM NS FAL-582-V 8559 1 X 12' ** CERTIFICATE ** LINE: 3 AC17570-YR-2018-06-22 Heat: 23164492	17.64	12.00	PI_\$CLB		1x12'					
4 FLAT ALU 1/2 X 3/4 6061-T6 * FAL-1234 2487 1 X 20' ** CERTIFICATE ** LINE: 4 Heat: 002M170121D	8.82	20.00	PI_\$CLB		1x20'					

24/



# DELIVERY - CLIENT

CO00009643C

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
5 FLAT ALU 3/8 X 5 6061-T6 * FAL-385 2625 1 X 20' ** CERTIFICATE ** 2 X 12' D9(OT) M LINE: 6 Heat: 0021170424A	44.00	20.80 24.00	PL \$CLB		2X12						
6 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 PC 1-5/8" X 72" ** CERTIFICATE ** LINE: 7	16.54	0.81	PI2			B/O					
AC-17571-FU-2018-07-03											

NIR : R-109516-6

Total Weight (Lbs): 611.88

## Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : CJ	Verified By :	Delivered By : WJ	Time
Customer's Signature			Date Y M D 18 07 05



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO040268**

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO040268

**PO Date:** 6/20/18

**Due Date:** 6/28/18

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** QUOTE SOU0113744

REVISED

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		MT-HRS-P-0.750		Hot Rolled Steel Plate 0.750" (44W) : MATERIAL: HOT ROLLED STEEL SHEET ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	6/28/18	16 ft	0 ft	16 ft	\$22.3225/ft	\$357.16
Line Item Note 1 PCS OF 4 FT X 4 FT = 16SF											
2		M6061T6B0.500X10.000		6061-T6 Bar .500 x 10.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.46/ft	\$110.76
3		M6061T6B0.625X02.000		6061T6 Bar 0.625 X 2.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$6.1141666/ft	\$73.37



Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4 ✓ AT		M6061T6B0.500X0.750		6061T6 Bar 0.500 X 0.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	20 ft	0 ft	20 ft	\$1.5695/ft	\$31.39
5		M6061T6B2.250X4.000		6061T6 Bar 2.250 X 4.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$46.50/ft	\$558.00
6 ✓ AT		M6061T6B0.375X5.000		6061T6 Bar 0.375 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	6/28/18	20 ft	0 ft	20 ft	\$7.611/ft	\$152.22
7		MT-4140-S-0.500X1.625		4140 Steel Plate 0.500 X 1.625 receive ft	Firmed	7/6/18	6 ft	0 ft	6 ft	\$24.80667/ft	\$148.84
Grand Total:										\$1,431.74	

## Order Notes

## Procurement Quality Clauses

A005 right of entry  
 A012 chemical and physical test report  
 A016 personnel qualification  
 A017 raw material identification (as applicable)  
 A026 certification of material conformance  
 A041 quality management system  
 A042 dart notification by supplier  
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/21/18 7:23 AM dart.lavoie.chantal

LES ACIERS OUBLETTE INC.  
BARRE RECT. ALUM ECONOPLT 6061-T6511  
500" X 10.00" X 144.0000"  
PART NO.

PO/Ref AC00007335  
Nous certifions que le document reproduit ici est  
une copie conforme du rapport fourni par le  
fournisseur du matériel ou les données résultent

# Certificate of Mill Test Results

BL VIM-514606-002

5Jul17  
Pg 1/1

de l'analyse faite par un laboratoire qualifié  
SIGNÉ PAR: *BW*

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-641383-1		CUSTOMER PART NUMBER: W60/STK		PRODUCT DESCRIPTION: 500 X 10.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 6030975	LINE ITEM: 001	SHIP DATE: 05/12/2017	KAISER LOT NUMBER: Z00191132	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1128.000 LB	QUANTITY: 16.000 PCS	B/L NUMBER: 619100	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: 			SOLD TO: 		

## Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS(KSI)	YTS(KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
200191132	0001	0001	49.3	44.1	12.9	RE 95	N/A	K/A
200191132	0001	0002	50.5	45.3	13.7	RE 95	N/A	N/A
200191132	0001	0003	50.1	45.2	13.3	RE 95	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107292	.73	.27	.27	.13	.83	.09	.15	.02	.00	.00	.00	.01	.03

## Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

## Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

*Aimee L. Macnowski*

Plant Serial: 00286395

Kaiser Order Number: 6030975

Line Item: 001

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061 T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:  
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR AS TM B221

PART NUMBER: M6061T6B T.TTT X WWW.WWW  
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
2009-05-03  
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, AUD	CP	09 07 13
A	ASTM B211B221 (ZN D7-1)	DS	01 06 09
REV.	NEW ISSUE	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAMPSHIRE, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. B
MFG. APPR.	AS	M6061T6B	SHEET 1 OF 1
APPROVED	AS	TITLE	SCALE
DE APPR.	AS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD	



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.500 x 10.000  
 DATE: 18/07/06

PO / BATCH NO.: P0040268 / 5089593

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 6'  
 QUANTITY INSPECTED: 6'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
 THICKNESS RECEIVED: 0.500"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	ASTM-B221
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	HT: 20011132
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <span style="float: right; font-size: small;">DAS 9 3-89</span>	SIGNED OFF BY: _____
DATE: <u>18/07/06</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

96430

Dart

17570N



Hydro Extrusion USA, LLC  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

## Certified Test Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1101383006	1	4500883025-00001	HYDRO2869850	1 of 2
			Cert Creation Date	Cert Print Date
			08-MAY-18	08-MAY-18

Quantity Shipped	Date Shipped	Item Description	Specification
3174	LB	Extruded Rectangular Bar 0.625 TK x 2.000 W 144 IN LN	ASTM B221 REV 14 AMS-QQ-A-200/8 REV A ASM E8221 REV 09 UNS#A96061 REV
B/L	Item No.	FIN M-MILL W/F 1.47 F 04 CS 2.1	
925555	G03361955	6061/T6511	
Delivery Id	Item No. Rev	Marking CONTINUOUS;	
4999104	--		
CustomerPart No.			
160001347			

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

*Darrell Wearich*  
Darrell Wearich

08-MAY-18

Quality Manager

Hydro Extrusion USA, LLC hereby certifies that the metal shipped under this report has been tested in accordance with the identified ASTM and/or ASME specifications and the results of the chemical analysis and mechanical properties tests are within the acceptable ranges of these specifications. Any product warranty is governed by the Extrusion North America Standard Terms and Conditions of Sale posted at [www.hydroextrusions.com/termsconditions](http://www.hydroextrusions.com/termsconditions).

Quantities per Lot / Packages		Lot Number	Quantity	UOM	Weight	
Package Number					Gross	Net
G12-CAP1135653		23164492	30	PCS	539	529
G12-CAP1135655		23164492	30	PCS	539	529
G12-CAP1135668		23164492	30	PCS	539	529
G12-CAP1135669		23164492	30	PCS	539	529
G12-CAP1135672		23164492	30	PCS	539	529
G12-CAP1135673		23164492	30	PCS	539	529

Composition Limits

9-89

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061 T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:  
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
2009-05-03  
JMD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	AS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAYKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED NOT TO BE USED FOR ANY PURPOSES OF OTHER THAN THE ORIGINAL INTENT UNLESS OTHERWISE SPECIFIED IN THE DOCUMENT			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.625x02.000  
 DATE: 18/07/06

PO / BATCH NO.: P0040268 / S089594

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"  
 THICKNESS RECEIVED: 0.625"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	HT: 23164492
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u> <span style="float: right; font-size: small;">DAS</span> DATE: <u>18/07/06</u> <span style="float: right; font-size: small;">SG</span>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



2487



**Service Center Metals**  
5850 Quality Way  
Prince George, VA 23875



# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
284260	2

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALESPERSON	ASTM-B221-14 No Stencil
Metaux Specialises Samuel	C73927	6061-T6511	D. Schroeder (Canada)	SPECIFICATION
Quantity Certified	1,058 lbs	120 pcs	DESCRIPTION	AMS-QQA-200/8 Rev-A
			SCRB .500X.750	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties		Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.		min	max	min	max	min	max
2	201701604	2/1/17	42.40	43.00	36.50	37.20	18.70	19.60

880343

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
002M170121D	201701604	6061	0.60	0.21	0.19	0.07	0.84	0.07	0.01	0.02	98.00	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 2/7/2017  
Calvin J. Wiggins, Director of Quality & Technical Services  
Rev 9/8/16

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM-B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
2009-05-03  
MAD

B	REMOVE QQ-A-250/1 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 6061 T6 B2.500x20.750  
 DATE: 18/07/06

PO / BATCH NO.: P0040268 / 5089595

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 20'  
 QUANTITY INSPECTED: 20'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
 THICKNESS RECEIVED: 0.500"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	MT: AMS-QQA-200/8
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT: 002 M 170 1210
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AI</u> <span style="float: right;">DAS S 3-83</span> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



48312 00-7514  
 Certificate of Mill Test Results  
 12Jul17  
 Pg 1/1

HAL-285-20  
 rO:Rel AC00007514  
 We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

ACIER OUELLETTE DIV-VALLEYFIELD  
 BARRERACT ALUMINIUM 6061-T6511  
 .375" x 5.00" X 240.0000"  
 PART NO.

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

**Service Center Metals**  
 5850 Quality Way  
 Prince George, VA 23875



OUR ORDER NUMBER	ITEM
920656	11

SILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
CLUB 771	332887	RB0089	5/17/2017	ASTM-B221-14 StencilCont
	CUSTOMER PO	ALLOY/TENSILE	SALES PERSON	SPECIFICATION
	PEC-282695	6061-T6511	D. Schroeder (Canada)	AMS-QQA-200/8 Rev-A
	CUSTOMER PART NUMBER	DESCRIPTION		RoHS 2011/65/EU Compliant
	RB0089 X 240	SCRB .375x5.000		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties	
Tests	Lot No.

Test Date	Yield Strength (KSI)	Ultimate Tensile Strength (KSI)	Percent Elongation
5/9/17	min 40.70 max 40.70	min 44.90 max 44.90	min 17.90 max 17.90

1 201707617

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source
												Each	Total	
002J170424A	201707617	6061	0.63	0.23	0.18	0.06	0.84	0.07	0.03	0.02	97.95	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 5/17/2017

Cable L. Williams Director of Quality & Technical Services



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:  
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
R 2009-05-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N 07-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
REV. B SHEET 1 OF 1 SCALE NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 6061 T6 B0.375x5.000

PO / BATCH NO.: P0 040268/5089596

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	AMS-QQA-20018
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	MT:002 J170424A
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <span style="float: right; font-size: small;">DAS 9 3-05</span> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



OUTSTANDING CAPITAL : 3.500.000.000 TL

CUSTOMER

ORDER NO : 7802713707

DIMENSIONS, mm

STANDARD & GRADE

PRODUCT TYPE & DEFINITION

19.050 X 2438 X 6096 ( 0.750 X 96 X 240 INCH )

CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246)

IKK HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592 NO MERCURY COMPOUNDS NO WELD REPAIR  
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION

TICKET NO/WEIGHT (MT)

HEAT NO

COIL or PLATE NO

P.S. or P.P.

SAM POS

TENSILE TEST

BEND or TEST

Ag or BH

VIT or F

HARDNESS

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TEST CERTIFICATE  
EN 10204 : 2004 TYPE 3.1

DATE : 16/08/2017  
CERTIFICATE NO : 71275251

Heat: 725249



MECHANICAL

TENSILE TEST

BEND or TEST

Ag or BH

VIT or F

HARDNESS

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CHEMICAL COMPOSITION, CAST ANALYSIS

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NOTE: T: Top, M: Middle, E: End, T: Transverse, L: Longitudinal, P: Piece of Size, P: Piece of Plate  
MERSİS Number: (İstanbul Head Office): 0352-0066-4260-0020, Trade Registry Number: (İstanbul Department): 50659, Trade Registry Number (Ereğli Department): 157472  
Head Office: İstanbul, Barışlar Mah. Ardeş Sok. No: 6 34746 Ataşehir / İSTANBUL - TURKEY





OUTSTANDING CAPITAL : 3.500.000.000 TL

TEST CERTIFICATE  
EN 10204 : 2004 TYPE 3.1

DATE : 16/08/2017  
CERTIFICATE NO : 71275251

CUSTOMER : 78602713707  
ORDER NO : 19 050 X 2438 X 6096 ( 0.750 X 96 X 240 INCH )  
DIMENSIONS, mm : CSA G40, 21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246)  
STANDARD & GRADE :  
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2552 NO MERCURY COMPOUNDS NO WELD REPAIR  
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL TESTS				CHEMICAL COMPOSITION, CAST ANALYSIS												
TICKET	NO/WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S or P.P	SAM POS	TENSILE TEST	BEND or TEST	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL
0237036061	13,680	725251	70230187861010	6	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
		725251	72525120300110	TT	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
		725251	72525120300120	TT	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
		725251	72525120300210	TT	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
		725251	72525120300220	TT	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
		725251	72525120300310	TT	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29	TT	380.5 552.1 29
0237038062	13,680	725251	70230187861010	6	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29
		725249	72524920500310	TT	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29
		725249	72524920500320	TT	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29	TT	375.6 555.1 29
		725251	72525120400110	TT	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27
		725251	72525120400120	TT	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27
		725251	72525120400310	TT	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27	TT	392.3 569.8 27
0237038063	13,710	725251	70230187861010	6	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26
		725246	72524620600310	TT	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26
		725246	72524620600320	TT	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26	TT	372.7 557.0 26
		725243	72524320800310	TT	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28
		725249	72524920800320	TT	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28	TT	388.3 560.0 28
		725254	72525420700310	TT	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28	TT	385.4 557.0 28

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40, 21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T: Top, M: Middle, E: End, T: Transverse, L: Longitudinal, P: S: Piece of Steel, P: Piece of Plate  
MESSIS Number (Istanbul Head Office): 0352-0006-4260-0020; Trade Registry Number (Istanbul Department): 90655; Trade Registry Number (Ereğli Department): 15747272  
Head Office: Istanbul; Barbaros Mah. No: 6 34748 Ataşehir / İSTANBUL - TURKEY



UNION TO VELIN FABRİKALARI İ.A.Ş.  
OUTSTANDING CAPITAL : 3.500.000.000 TL

TEST CERTIFICATE  
EN 10204 : 2004 TYPE 3.1

DATE : 16/08/2017  
CERTIFICATE NO : 71275251  
PAGE NO

CUSTOMER : 78602713707  
ORDER NO : 19.050 X 2438 X 6096 : ( 0.750 X 96 X 240 INCH )  
DIMENSIONS, mm : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246)  
STANDARD & GRADE :  
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2552 NO MERCURY COMPOUNDS NO WELD REPAIR  
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL				CHEMICAL COMPOSITION, CAST ANALYSIS																				
TICKET NO/WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S or P.P	TENSILE TEST			BEND or TEST	Ag or B4	Y/T or T	HARDNESS			HIGHER TEST, JOULE			HIGH TEMP °C	C %	Mn %	P %	S %	Si %	Al %	Cu %	Ni %	V %	N %	PPM	
				SAM POS	YIELD STRENGTH N/MM2	ELONG N/200				VAL	VAL	VAL	1	2	3													AVR TEM °C
0237038064 13,890	725249	725249207003201	6	TT	385.4	557.0	28									0.199	1.238	0.018	0.005	0.182	0.031	0.026	0.040	0.073	47			
	725249	725249207003101		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207001101		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207001201		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207003001101		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207003001201		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
0237038066 13,690	725249	725249207003002101	5	TT	388.3	560.0	28									0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44			
	725249	725249207003002201		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207003003101		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207003003201		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207004001101		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207004001201		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
0237038067 13,670	725249	725249207004002101	6	TT	375.6	555.1	29									0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44			
	725249	725249207004002201		TT	375.6	555.1	29										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207004003101		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207004003201		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207005002101		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		
	725249	725249207005002201		TT	388.3	560.0	28										0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44		

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246) WITH SATISFACTORY RESULTS.



NOTE : T:Top, M:Middle, B:End, T:Transverse, L:Longitudinal, P:S:Piece of Steel, P-P:Piece of Plate  
MERS:S:Number(Istanbul Head Office): 0352-0006-4260-0020: Trade Registry Number(Istanbul Department): 50659: Trade Registry Number(Ereğli Department): 1574727  
Head Office: Istanbul : Barbaros Mah. Ardic Sok. No. 6 34745 Ataşehir İSTANBUL - TURKEY



www.erdemir.com.tr

YATIRIM MENKUL DEĞERLER A.Ş. / ÇELİK FABRİKASI T.A.Ş.  
OUTSTANDING CAPITAL : 3.500.000.000 TL

# TEST CERTIFICATE

EN 10204 : 2004 TYPE 3.1

DATE : 18/08/2017  
CERTIFICATE NO : 71275251  
PAGE NO

CUSTOMER : 78602713707  
ORDER NO : 19.050 X 2438 X 8096 ( 0.750 X 98 X 240 INCH )  
DIMENSIONS, mm : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2 (ERDEMİR 3246)  
STANDARD & GRADE :  
PRODUCT TYPE & DEFINITION : LKX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592 NO MERCURY COMPOUNDS NO WELD REPAIR  
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL TESTS										CHEMICAL COMPOSITION, CAST ANALYSIS														
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S or P.P	ISAM	TENSILE TEST		BEND or TEST	Ag VAL	YIT or HARD VAL	HARDNESS			HIGH TEMP °C	CHEMICAL COMPOSITION, CAST ANALYSIS													
						YIELD STRENGTH N/MM2	ELONGATION 200 N/MM2				1	2	3		AVR	TEMP °C	YIELD N/MM2	C %	MN %	P %	S %	SI %	AL %	CU %	NI %	V %	N %	
0237038069 13.580		725249	725249200600310	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725249	725249200600320	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725249	725249200600110	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725249	725249200600120	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725249	725249200700110	IT	375.6	555.1	29								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725249	725249200700210	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
0237038069 13.640		725249	725249200700220	IT	388.3	560.0	28								0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080			44		
		725246	725246200200310	IT	372.7	557.0	26								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246200200320	IT	372.7	557.0	26								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246200400210	IT	385.4	560.0	27								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246200400220	IT	385.4	560.0	27								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246200500310	IT	385.4	560.0	27								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
0237038070 13.720		725246	725246200500320	IT	385.4	560.0	27								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246200500310	IT	385.4	560.0	27								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246201002210	IT	372.7	557.0	26								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		
		725246	725246201002201	IT	372.7	557.0	26								0.190	1.261	0.018	0.006	0.174	0.026	0.022	0.041	0.078			50		

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF EN 10204 : 2004 TYPE 3.1 WITH SATISFACTORY RESULTS



NOTE: T: Top, M: Middle, E: End, T: Transverse, L: Longitudinal, P: S: Piece of Slice, B: Piece of Plate  
WELDING NUMBER (İstanbul Head Office): 0352-0006-4260-0020, Trade Registry Number (İstanbul Department): 30559, Trade Registry Number (Ereğli Department): 15747272  
Head Office: İstanbul; Barbaros Man. Ardiç Sok. No: 6 34746 Alışehir İSTANBUL - TURKEY  
www.erdemir.com.tr

DATE : 16/08/2017  
CERTIFICATE NO : 71275251  
PAGE NO

TEST CERTIFICATE  
EN 10204 : 2004 TYPE 3.1

OUTSTANDING CAPITAL : 3.500.000.000 TL

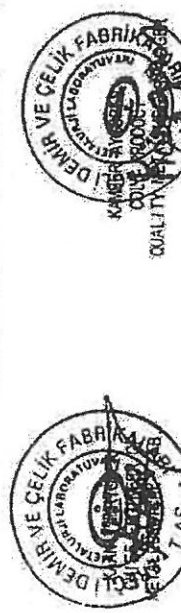
CUSTOMER

ORDER NO : 76602713707  
DIMENSIONS, mm : 19.050 X 2438 X 6096 ( 0.750 X 96 X 240 INCH )  
STANDARD & GRADE : CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246)  
PRODUCT TYPE & DEFINITION : LUX : HOT ROLLED HEAVY PLATE WITH MILL EDGE

2592 NO MERCURY COMPOUNDS NO WELD REPAIR  
FULLY KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION				MECHANICAL				CHEMICAL COMPOSITION, CAST ANALYSIS																		
TICKET NO	WEIGHT (MT)	HEAT NO	COIL or PLATE NO	P.S or P.P	ISAM POS	TENSILE TEST	BEND TEST	Ag or TEST	YIT or HARD	WELDED TEST			AVR TEM °C	YIELD N/MM2	HIGH TEMP °C	C %	Mn %	P %	S %	SI %	AL %	CU %	NI %	V %	N PPM	
										1	2	3														
0237038071	13.680	725246	72524620100320	IT	385.4	560.0	27	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50	
		725246	72524620200010	IT	372.7	557.0	26	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50	
		725246	725246202000120	IT	372.7	557.0	26	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50	
		725249	72524920200010	IT	388.3	560.0	28	IT	388.3	560.0	28	IT	388.3	560.0	28	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202000120	IT	388.3	560.0	28	IT	388.3	560.0	28	IT	388.3	560.0	28	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202000210	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
0237038072	13.720	725249	725249202000220	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202000310	IT	388.3	560.0	28	IT	388.3	560.0	28	IT	388.3	560.0	28	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249202000320	IT	388.3	560.0	28	IT	388.3	560.0	28	IT	388.3	560.0	28	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	70230187951010	6	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44
		725249	725249205000110	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249205000120	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
0237038073	13.730	725249	725249206000210	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249206000220	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249207000310	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	725249207000320	IT	375.6	555.1	29	IT	375.6	555.1	29	IT	375.6	555.1	29	0.190	1.247	0.021	0.005	0.183	0.030	0.026	0.041	0.080	44	
		725249	70230187971010	6	IT	372.7	557.0	26	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50
		725246	725246207000110	IT	372.7	557.0	26	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50	
725246	725246207000120	IT	372.7	557.0	26	IT	372.7	557.0	26	IT	372.7	557.0	26	0.190	1.261	0.018	0.005	0.174	0.026	0.022	0.041	0.078	50			

WE (THE MANUFACTURER) HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40.21-13 / ASTM A572-15 300W/350W / GR50 TYPE 2(ERDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T Top, M Middle, E End, L Transverse, L Longitudinal, P.P Piece of Steel, P.P Piece of Plate  
MESUR Number (Istanbul Head Office): 0352-0068-4260-0020; Trade Registry Number (Istanbul Department): 30659; Trade Registry Number (Ereğli Department): 1574772  
Head Office: Istanbul; Barbaros Mah. Aidiç Sok. No: 6 34746 Ataşehir (İSTANBUL - TÜRKİYE)





1 2 3 4 5 6 7 8

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH AND WIDTH DIMENSIONS	17-675	26/09/2017	SAC	WM

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL PLATE

ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018

MT-HRS-P-[T.TTT]

WHERE T.TTT IS PLATE THICKNESS IN INCHES

MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS



TITLE		HOT ROLLED STEEL PLATE	
SWE 103		REV	
DESIGN BY: SAC 09/27/2017		MT-HRS-P	
DRAWN BY: SAC 09/27/2017		B	
CHECKED: VM 09/27/2017		1. DIMENSIONS ARE IN INCHES	
MFG. APPR: JOP 09/27/2017		2. INTERPRET DIM AND TOL PER	
APPROVED: JWM 10/05/2017		3. ASME Y14.5M 2009	
DATE: 9/27/2017		4. DIMENSIONS UNLESS OTHERWISE SPECIFIED	
SCALE: NTS		WEIGHT: N/A	
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THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE IN WHICH CASE IT IS CLASSIFIED BY THE AUTHORITY FOR THE PROPOSED DECLASSIFICATION DATE.			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-P-0.750  
DATE: 18/07/12

PO / BATCH NO.: PO 040268 / 5989592

MATERIAL CERT REC'D: yes  
QUANTITY RECEIVED: 16sf  
QUANTITY INSPECTED: 16sf  
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"  
THICKNESS RECEIVED: 0.750"  
SHEET SIZE ORDERED: 4'x4'  
SHEET SIZE RECEIVED: 4'x4'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	<u>ASTM A572 acceptable use for LB only. PD.</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	<u>HT: 725249</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT PD</u>	SIGNED OFF BY: _____
DATE: <u>18/07/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in